



**CLAIM LISTING:**

**1. (Currently amended)** A communication system comprising:

5 a driving circuit comprising a driver with controlled output voltage or current levels; and

a receiving circuit comprising

10 a main receiver having at least one channel for receiving a main signal, and  
a reproducing circuit for reproducing characteristics of the main receiver,  
comprising an additional receiver identical to the main receiver, wherein the  
reproducing circuit generates a signal representing a hysteresis value of the  
main receiver,

15 ~~whereby in the receiving circuit further provides a feedback to the driver to~~  
~~adjust the voltage swing parameters of the driver~~ isare adjusted ~~to the receiver's~~  
~~hysteresis characteristics by using a signal generated by the reproducing auxiliary~~  
~~circuit reproducing one or more characteristics of the main receiver.~~

**2. (Canceled)**

**3. (Canceled)**

**4. (Canceled)**

20 **5. (Currently amended)** The communication system according to claim 1,  
wherein the receiver's characteristics further include the reference voltage and  
terminating voltage.

**6. (Canceled)**

25 **7. (Currently amended)** The communication system according to claim 12,  
wherein the ~~auxiliary reproducing reproducing circuit is incorporated in~~ includes a ring  
oscillator circuit, the signal from the ring oscillator being used to adjust the  
parameters of the driver to the receiver's characteristics.

8. **(Currently amended)** The communication system according to claim 3, wherein the additional~~auxiliary~~ receiver is made on the same integrated circuit or an integrated circuit identical to the integrated circuit used to make the main receiver.

9. **(Currently amended)** The communication system according to claim 5, wherein the additional~~auxiliary~~ receiver is used to obtain the information on the main receiver, including a terminating voltage and reference voltage.

10. **(Currently amended)**. A communication system comprising:

a driving circuit comprising a driver with controlled output voltage or current levels, and

a receiving circuit comprising a main receiver having at least one channel for receiving a main signal, wherein

the driving circuit comprises a reproducing~~auxiliary~~ circuit for reproducing characteristics of the main receiver, comprising additional receiver identical to the main receiver, wherein the reproducing circuit generates a signal representing a hysteresis value of the main receiver,

whereby~~so that the voltage swing parameters of the driver is~~ adjusted to the receiver's hysteresis characteristics by using a signal generated by the auxiliary circuit reproducing circuit~~one or more representing characteristics of the main receiver.~~

11. **(Canceled)**

12. **(Currently amended)** The communication system according to claim 10, wherein the reproducing~~auxiliary~~ circuit is made on an integrated circuit identical to the integrated circuit used to make the main receiver.

13. **(Canceled)**

14. **(Currently amended)** The communication system according to claim 13, wherein the information on the main receiver further includes, ~~but is not limited to the~~ terminating voltage and reference voltage.

15. **(Canceled)**

5       **16. (Currently amended)** In a communication system, a receiver comprising  
a main receiver having at least one channel for receiving a main signal, and  
a reproducing circuit comprising an additional receiver identical to the main  
receiver and generating a signal representing parameters bearing information  
on the maximum and minimum levels that are needed to cause a signal to be  
received as a logical one and as a logical zero whereby this signal influences  
the signal swing of ~~at the~~ transmitter, whereby the signal swing of the transmitter  
is adjusted to the receiver's parameters.

10       **17. (Original)** The receiver according to claim 16, wherein the levels are  
voltage levels.

**18. (Original)** The receiver according to claim 16, wherein the levels are  
current levels in current mode devices.

**19. (Original)** The receiver according to claim 16, wherein the signal is digital.

15       **20. (Original)** The receiver according to claim 16, wherein the signal is a  
differential analogue signal.

**21. (Currently amended)** A method of low swing communication comprising  
the steps of:

      providing voltage or current levels at the driver for driving a communication  
circuit;

20       generating a signal at the receiver using an additional receiver identical to the  
main receiver, wherein the signal is indicative of parameters bearing information on  
the said voltage or current levels to cause a signal to be received as a logical one and  
as a logical zero;

25       wherein the output signal swing of the driver is adjusted using the signal  
generated by the receiver.

22. **(Original)** A method according to claim 21, wherein the output swing of the driver is adjusted to the receiver's hysteresis.

23. **(Original)** A method according to claim 21, wherein the terminating voltage is adjusted to the receiver's transition voltage.

5        24. **(Original)** A method according to claim 21, further comprising the use of another receiver to adjust the driver with respect to hysteresis, reference voltage, or a combination of both these features.

25. **(Currently Amended)** A method of low swing communicating comprising the steps of:

10        providing voltage or current levels at the driver for driving a communication circuit;

15        generating a signal at the driver using a reproducing circuit for reproducing characteristics of a main receiver and comprising an additional receiver identical to the main receiver, wherein the signal is representing parameters bearing information on the said voltage or current levels to cause thea signal to be received as a logical one and as a logical zero;

      wherein the output signal swing of the driver is adjusted using the signal bearing information on the said voltage or current levels.

20        26. **(Original)** A method according to claim 25, wherein the output swing of the driver is adjusted to the receiver's hysteresis.

27. **(Original)** A method according to claim 25, further comprising the use of another receiver located at the driver to adjust the driver with respect to hysteresis, reference voltage, or a combination of both these features.

25        28. **(Currently Amended)** A method of adjustment of the output signal of a driver, comprising the steps of:

      providing voltage or current levels at the driver for driving a communication circuit;

generating a signal at the receiver using a reproducing circuit for reproducing characteristics of the main receiver and comprising an additional receiver identical to the main receiver, wherein the signal is indicative of parameters bearing information on the said voltage or current levels to cause a signal to be received as a logical one  
5 and as a logical zero;

wherein the output signal swing of the driver is adjusted using the signal generated by the receiver or the signal bearing information on the said voltage or current levels.